

a flexible backing plate bent around said convex surface of  
said base and having an acoustic impedance the same as that of  
said base, said flexible backing plate having opposed sides, one  
of which is bonded to the [curvilinear] convex surface of said  
base with an epoxy resin containing heavy metal powder to match  
the acoustic impedance of said base to said backing plate, and

an array of ultrasonic transducer elements disposed on the  
other side of said flexible backing plate, said array of  
transducer elements comprising a piezoelectric ceramic plate  
having opposed sides, electrode layers provided on the opposed  
sides of said [piezoelectrical] piezoelectric ceramic plate, and  
a matching layer formed on a selected of said electrode layers,  
said array having grooves cut through said piezoelectric ceramic  
plate, said electrode layers, said matching layer and a portion  
of the flexible backing plate to define individual transducer  
elements and to isolate said individual transducer elements . ,  
and

a plurality of flexible printed circuit boards having  
electrical lead patterns sandwiched between said piezoelectric  
plate and said flexible backing plate and connected to respective  
of said transducer elements to supply drive pulses to said  
respective transducer elements.

Claim 5, line 1, change "curvilinear" to --convex--.

Please add new Claims 8-10 as follows:

*38.* The convex array according to Claim 1, comprising:  
said flexible printed circuit boards having grooves cut  
therethrough in correspondence with the grooves defining said  
transducer elements, to separate said lead patterns in  
correspondence with said respective transducer elements.

*4.* The convex array according to Claim 1, wherein said  
flexible printed circuit boards have divergent tips which are  
bent around sides of said base such that the divergent tips are  
gathered and aligned parallel to a common line.

*5.* The convex array according to Claim *4*, wherein said  
flexible printed circuit boards have divergent tips which are  
bent around sides of said base such that the divergent tips are  
gathered and aligned parallel to a common line.

REMARKS

Favorable consideration of this application as presently  
amended and in light of the following discussion is respectfully  
requested.

Claims 1, 5, and 8-10 are presently active in this case,  
claims 1 and 5 having been amended, claims 2 and 3 cancelled, and  
claims 8-10 having been added by way of the present Amendment,  
claims 4 and *6* having previously been cancelled.

In the Official Action dated May 13, 1986 in parent U.S.  
Application Serial No. 679,058, claims 1, 2, 5 and 6 were finally